

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 04173767
PUBLICATION DATE : 22-06-92

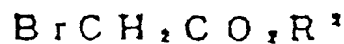
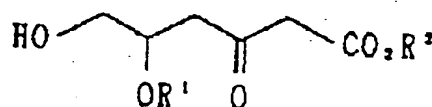
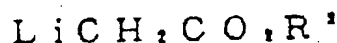
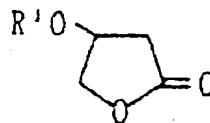
APPLICATION DATE : 02-11-90
APPLICATION NUMBER : 02298658

APPLICANT : KANEGAFUCHI CHEM IND CO LTD;

INVENTOR : TAKAHASHI SATOMI;

INT.CL. : C07C 69/716 C07C 67/343 C07F 7/18

TITLE : PRODUCTION OF
5,6-DIHYDROXY-3-OXOHXANOIC
ACID ESTER DERIVATIVE



ABSTRACT : PURPOSE: To obtain the title compound useful as an intermediate for HMG-CoA reductase inhibitor efficiently and economically by reacting 3-hydroxy- γ -butyrolactone derivative with lithium enolate of acetic ester.

CONSTITUTION: A compound shown by formula I (R^1 is H or silyl type protecting group) is allowed to react with a compound shown by formula II (R^2 is 1-10C alkyl, aralkyl or aryl), preferably lithium enolate prepared by reacting t-butyl acetate with lithium diisopropylamide at -100 to 20°C , preferably -80 to 0°C to give a compound shown by formula III. Or, the compound shown by formula I is reacted with an α -bromoacetic acid ester shown by formula IV in the presence of zinc at $15-70^\circ\text{C}$, preferably $20-65^\circ\text{C}$ to give a compound shown by formula III.

COPYRIGHT: (C)1992,JPO&Japio